

	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO 85 °C(NOTE1)			STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C			
	VOLTAGE	30 V AC			APPLICABLE CONNECTOR	DF30*-80DP-0.4V (**)			
	CURRENT	0.3 A							
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS			QT	AT	
CONSTRUCTION									
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X	X	
MARKING	CONFIRMED VISUALLY.						X	X	
ELECTRICAL CHARACTERISTICS									
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).			100 mΩ MAX.			X	-	
INSULATION RESISTANCE	100 V DC.			50 MΩ MIN.			X	-	
VOLTAGE PROOF	100 VAC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	-	
MECHANICAL CHARACTERISTICS									
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 10 CYCLES OF EACH 3 AXIAL DIRECTION FOR 5 min.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5 TO 35 → 85 → 5 TO 35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. (TEST STANDARD: IEC60068)			① CONTACT RESISTANCE: 100 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h. (TEST STANDARD: IEC60068)			① CONTACT RESISTANCE: 100 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. Unless otherwise specified, refer to IEC60512.				DRAWN T.Nishi 04.07.30	DESIGNED K.Mizohara 04.07.30	CHECKED K.Keda 04.07.30	APPROVED J.Gra 04.07.30	RELEASED	
Note QT: Qualification Test AT: Assurance Test ×: Applicable Test									
HS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET			PART NO. DF30FC-80DS-0.4V (81)				
CODE NO.(OLD) CL		DRAWING NO. ELC4-303468-03			CODE NO. CL684-1116-3-81				

1	2	3	4						
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
4	RE-H-06664	YM	TS	04.12.17					

A ■ NOTES WHEN MATING DF30 SERIES CONNECTORS.

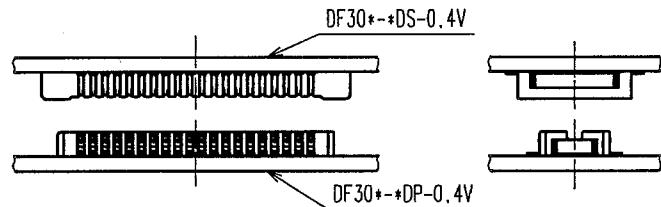


FIGURE-1

B PLEASE LOCATE EACH CONNECTOR IN PARALLEL WHEN YOU PUT THEM IN MATING POSITION.

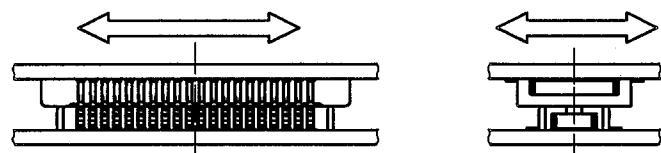


FIGURE-2

C THE INSULATOR WILL BE DAMAGED AND THE CONTACTS WILL BE DEFORMED IF THE CONNECTORS ARE LOCATED INCLINED AND MATED BY EXCESSIVE FORCE.

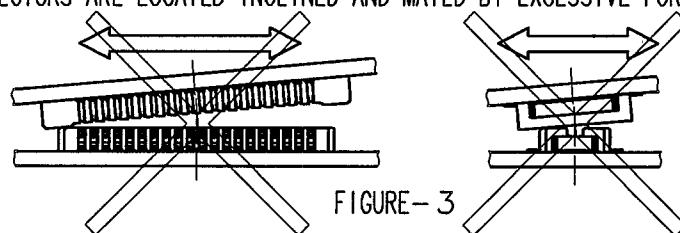


FIGURE-3

D WHEN YOU LOCATE TWO CONNECTORS IN A PROPER POSITION, THEY WILL GO DOWN SLIGHTLY AT A LOWER LEVEL AND YOU WILL FIND THAT THEY GET LOCATED CORRECTLY. PLEASE MATE EACH CONNECTOR IN PARALLEL AFTER YOU CONFIRMED THAT THEY GO DOWN LOWER TO SOME EXTENT.

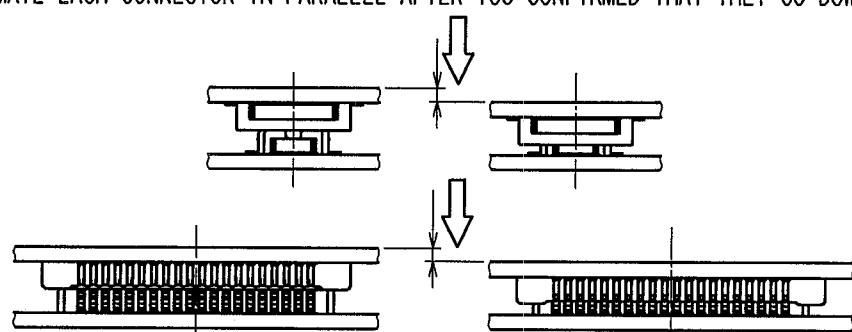


FIGURE-4

E THE MATED CONDITIONS CAN BE RELEASED BY A DROP IMPACT OR THE APPLIED FORCE CAUSED BY FPC-HANDLING. FIX THE CONNECTORS BY APPLYING PRESSURE IN THE MATING DIRECTION WITH THE DEVISE OR A BUFFER MATERIAL.

TO	CODE NO. (OLD)	DRAWN Y. MICHIDA	DESIGNED A. TAKAHASHI	CHECKED T. SAKATA	APPROVED T. OMA	RELEASED	
	NOTES WHEN MATING	04.12.16	04.12.16	04.12.16	04.12.16		
F	DRAWING NO. EDSC4-830174	PART NO. DF 30 Series					
SCALE FREE : 1	UNITS mm	CODE NO. CL 684					
	HIROSE ELECTRIC CO., LTD.	1	3				

1	2	3	4						
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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△					△				
△					△				

A A

△ WHEN FPC IS SOFT, STRESS IS CONCENTRATED ON THE CONTACTS AT CORNERS.
PLEASE PAY ATTENTION TO THIS POINT AND DO NOT UNMATE CONNECTORS FROM CORNERS AS FIGURE-10.
THIS GIVES SERIOUS DAMAGE ON CONTACTS, AND OCCURS SOLDER PEEL-OFF OR CONTACT COME-OFF.

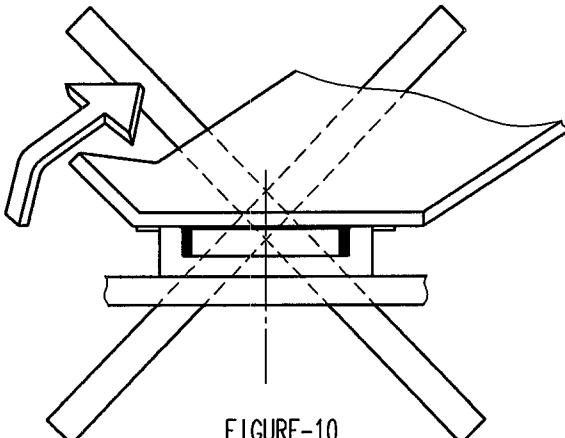


FIGURE-10

B B

C C

IF YOU MOUNT PLUG CONNECTOR ON FPC, CONTACTS MIGHT COME OFF FROM HOUSING MOLD.

CONTACT MIGHT COME OFF FROM HOUSING MOLD.

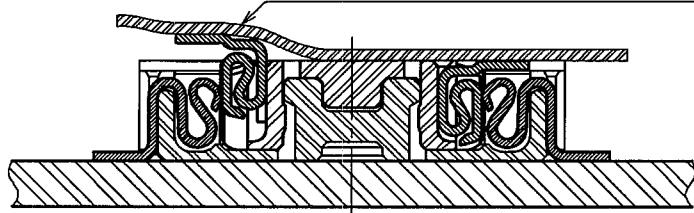


FIGURE-11

D D

E E

IN CASE YOU MOUNT RECEPTACLE CONNECTOR ON FPC, THERE IS NO RISK OF CONTACT COME-OFF.
HIROSE RECOMMEND THAT RECEPTACLE IS MOUNTED ON FPC.

IN ORDER TO AVOID THIS RISK, IT IS RECOMMENDED
THAT YOU MOUNT RECEPTACLE CONNECTOR ON FPC.

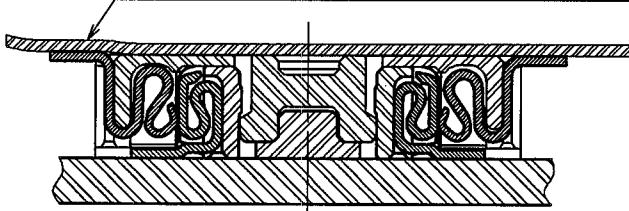
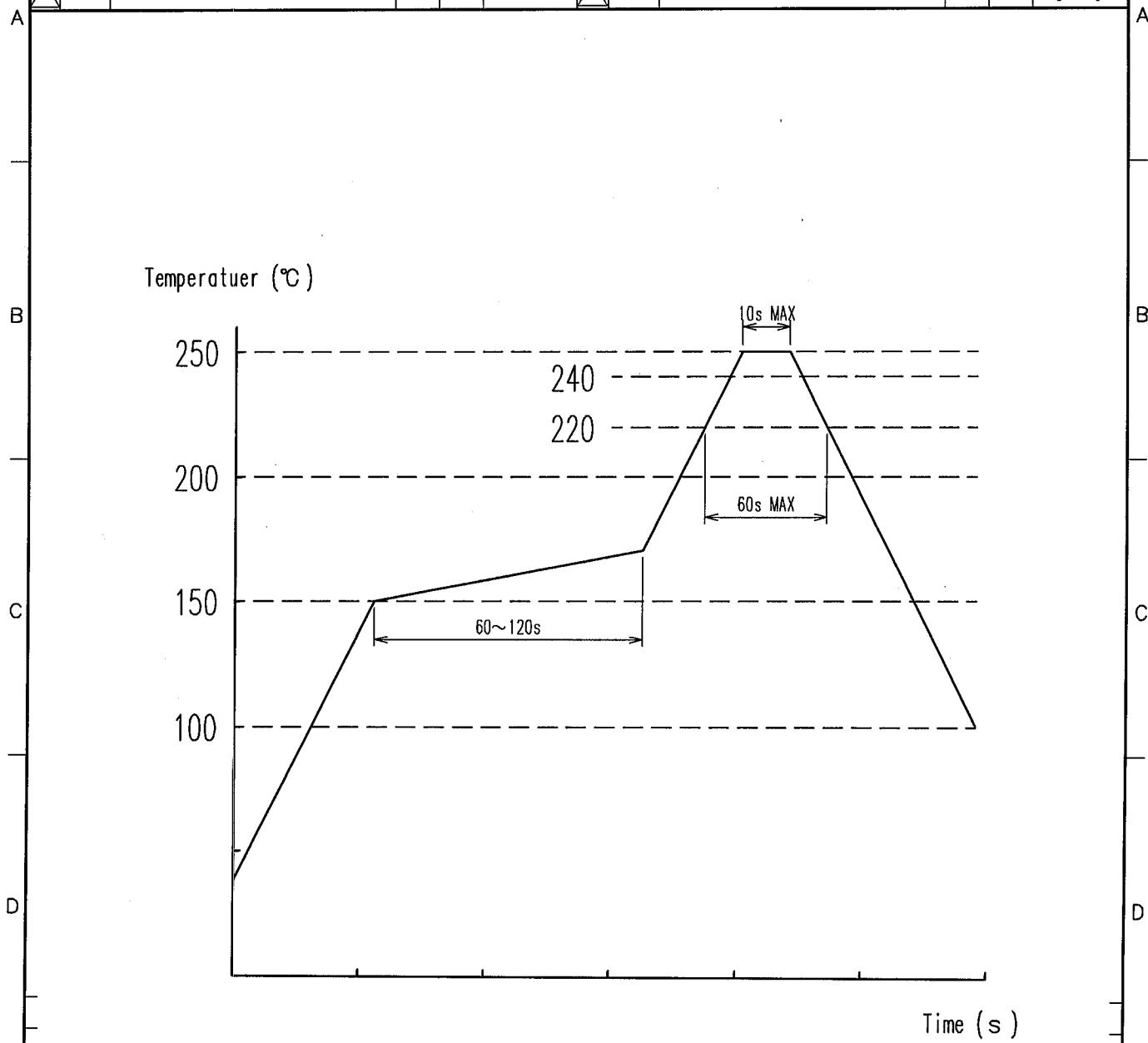


FIGURE-12

CODE NO. (OLD)		DRAWN Y.MICHIDA 04.12.16	DESIGNED A.TAKAHASHI 04.12.16	CHECKED T.SAKATA 04.12.16	APPROVED T.OMA 04.12.16	RELEASED
NOTES WHEN EXTRACTING (SUPPLEMENTARY DATA)		DF30 Series				
DRAWING NO. EDSC4-830174 SCALE FREE : 1 UNITS mm		PART NO. CL 684				
HIROSE ELECTRIC CO.,LTD.		CODE NO. CL 684				3/3

1	2	3	4						
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△				..	△				..
△					△				..
△					△				..



NOTE 1.REFLOW SYSTEM : IR REFLOW (AIR OR N₂ GAS)
2.PERFORMING REFLOW : TWICE MAX

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED APPROVED RELEASED
TO			T. NISHI	W. Fukuchi	J. Jonikai J. Ono
F	RECOMMENDED TEMPERATUER PROFILE		03.08.19	03.08.19	03.08.20 03.08.20
SCALE FREE	DRAWING NO.	EDC4-830116	PART NO.	DF30-*DS/DP-0.4V	
UNITS mm	HIROSE	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL684	1/1